

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. LEC01 P-432	SERIAL NO. 10/561,775
	APPLICANT(S) Anatoli Verentchikov et al.	
	FILING DATE 12/20/2005	GROUP 2881

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPRO- PRIATE
/M.M./	6 6 7 4 0 6 9	01/06/04	Martin et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLA- TION	
						Y	N

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		

EXAMINER	/Michael Maskell/	DATE CONSIDERED	02/04/2008
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 3

Complete if Known

Application Number.	10/561,775
Filing Date	12/20/2005
First Named Inventor	Anatoli N. Verentchikov
Art Unit	2800 2881
Examiner Name	M. Maskell
Attorney Docket Number	LEC01 P-432

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
MM	1	US- 4072862	02/07/1978	Mamyrin et al.	
	2	US- 4963736	10/16/1990	Douglas et al.	
	3	US- 5017780	05/21/1991	Kutscher et al.	
	4	US- 5070240	12/03/1991	Lee et al.	
	5	US- 5763878	06/09/1998	Franzen	
	6	US- 5847386	12/08/1998	Thomson et al.	
	7	US- 6020586	02/01/2000	Dresch et al.	
	8	US- 6107625	08/22/2000	Park	
	9	US- 6111250	08/29/2000	Thomson et al.	
	10	US- 6331702	12/18/2001	Krutchinsky et al.	
	11	US- 6504150	01/07/2003	Verentchikov et al.	
	12	US- 6545268	04/08/2003	Verentchikov et al.	
	13	US- 6670606	12/30/2003	Verntchikov et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	1	WO 9103071	03/07/1991			
	2	WO 9930350	06/17/1999			
	3	WO 0178106	10/18/2001			
✓	4	WO 2004008481	01/22/2004			
	5	EP 1237044	09/04/2002			

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Application Number	10/561,775
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First Named Inventor	Anatoli N. Verentchikov
Art Unit	2800 2881
Examiner Name	M. Maskell
Attorney Docket Number	LEC01 P-432

U. S. PATENT DOCUMENTS

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		Country Code ² Number ⁴ Kind Code ³ (if known)				
	6	GB 2080021	07/06/1981			
	7	GB 2361353	10/17/2001			
	8	GB 2378312	02/05/2003			
	9	SU 198034	12/29/1967			
	14	SU 1681340	09/30/1991			

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Sheet	3	of	3
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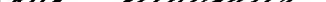
Application Number	10/561,775
Filing Date	12/20/2005
First Named Inventor	Anatoli N. Verentchikov
Art Unit	2800 2681
Examiner Name	M. Maskeil
Attorney Docket Number	LEC01 P-432

U. S. PATENT DOCUMENTS

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Sheet

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Filing Date	12/20/2005
First Named Inventor	Anatoli N. Verentchikov
Art Unit	2800 2881
Examiner Name	M. Maskel
Attorney Docket Number	LEC01 P-432

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BENJAMIN M. CHIEN, ET AL., "Plasma Source Atmospheric Pressure Ionization Detection of Liquid Injection Using an Ion Trap Storage/Reflectron Time-of-flight Mass Spectrometry," Anal. Chem. 1993, 65, 1916-1924.	
		JOHN B. HOYES, ET AL., "A High Resolution Orthogonal TOF with Selectable Drift Length," ASMS2000.	
		QINCHUNG JI, ET AL., "A Segmented Ring, Cylindrical Ion Trap Source for Time-of-flight Mass Spectrometry," J Am Soc Mass Spectrom 1996, 7, 1009-1017.	
		ALFONZ LUCA, ET AL., "On the combination of a Linear Field Free Trap with a TOF MS," 2001 American Institute of Physics, Review of Scientific Instruments, Vol. 72 No. 7, July 2001, pp. 2900-2908.	
		V.I. KARATAEV, B.A. MAMYRIN, AND D.V. SHMIKK, "New Method for Focusing Ion Bunches in TOF MS," Sov. J. Tech. Phys. 41 (1971) 1498, Soviet Physics - Technical Physics, Vol. 16, No. 7, pp. 1177-1179, (January 1972).	
		MELVIN A. PARK, ET AL., "High m/z Range, High Resolution Coaxial Multiple Reflection ESI-TOFMS," Proceedings of the 49th ASMS Conference on Mass Spectrometry, Chicago, IL, (May 27-31, 2001).	
		T. SAKURAI, ET AL., "A New Multi-passage Time-of-flight Mass Spectrometer at JAIST," Nucl. Instr. and Meth. in Phys. Res., A 427 (1999) 182-186.	
		T. SAKURAI, ET AL., "Ion Optics of a High Resolution Multipassage Mass Spectrometer with Electrostatic Ion Mirrors," Nucl. Instr. and Meth. in Phys. Res., A 363 (1995) 473-476.	
		H. WOLLNIK AND M. PRZEWLOKA, "Time-of-Flight Mass Spectrometers with Multiply Reflected Ion Trajectories," International Journal of Mass Spectrometry and Ion Processes, Vol. 96, No. 3, pp. 267-274, (April 16, 1990).	
		H. WOLLNIK, A. CASARES, "An Anergy-isochronous Multi-pass TOF MS Consisting of Two Coaxial Electrostatic Mirrors," International Journal of Mass Spectrometry 227 (2003) pp. 217-222.	

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